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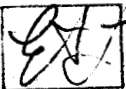
**BID PROPOSAL
ARSENIC REMOVAL
SYSTEM
FOR
Lake Verde Water Co.**

Docket No W-01557A-15-0079

W-01557A-15-0080

Arizona Corporation Commission
DOCKETED

MAY 28 2015

DOCKETED BY	
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Date 5/4/2015

Global Water Renewal, LLC, LLC
P: 602-509-7521
WayneSelness@gmail.com

Date

RE: COST SHEET QUOTE # WELL #

Equipment Cost	\$ 16,500	
Delivery/Installation	\$ 3,500	
Equipment Design Engineering	\$ 3,500	
TOTAL EQUIPMENT COST		\$ 23,500
ADEQ Permit Fee		\$ 1,500
Media/Freight Cost (cu.	\$ 4,000	
Installation/backwash	\$ 1,000	
TOTAL MEDIA COST		\$ 5,000
TOTAL PROJECT COST		\$ 30,000

TERMS AND CONDITIONS

<u>Total Equipment Cost</u>		\$ 23,500
Initial Payment	60 % Due at signing of contract	\$ 14,100
ADEQ Permit Fee	Due at signing of contract	\$ 1,500
Total	Due at signing of contract	\$ 15,600
Second (2nd) Pymt.	30 % Due upon System Delivery	\$ 7,050
Final Payment	10 % Due 30 days backwashing	\$ 2,350
Media Payment	100 % Due upon System Delivery	\$ 5,000
Total Project cost		\$ 30,000

Quoted Terms – This pricing is valid until June 30, 2015.

Transportation Liability – Global Water Renewal, LLC is responsible for transportation and any damage during the delivery process. FOB is to Well Site.

DESIGN CRITERIA	
	WELL LOCATION
Tank Size	42" by 72 "
Number of tanks	1
Pipe Size	2 inch
Media Column Height	36"
GPM/ft² surface area	8.1
Empty Bed Contact Time	3 minutes
Cubic Feet Media per Tank	10
Total Well Head Flow	50 GPM
Years to reach 8 ppb	
Treated Flow	
By-pass Flow	

CRITERIA UPON WHICH THIS QUOTE IS BASED	
Arsenic (V)	1.3 PPB
Arsenic III)	1.4 PPB
Vanadium	
pH	
Silica	
Well-head flow	50 GPM / @ 33% Duty Cycle
Piping size	2 inch
System inside or outside	Inside



Graver Technologies

200 Lake Drive, Glasgow, DE 19702
800.249.1990

MetSorb® HMRG System Sizing and Media Performance Estimation

Date:	May 27, 2015
Company:	GEcom Water Solutions
Contact Name:	Wayne Selness
System Location:	LVWC

Well Production Information

Max Pump or Design Flow Rate (GPM)	50 GPM
Gallons per Day (GPD)	36,000 GPD
Total Annual Production (GPY):	13,140,000 GPY

Water Quality Information

pH:	7.70
Total Arsenic:	22 µg/l
Arsenic III:	<1.0 µg/l (Assumption)
Silica:	36.9 mg/l <i>Elevated</i>
Iron:	<0.05 mg/l
Manganese:	<0.05 mg/l
Alkalinity -Total	328 mg/l
Total Hardness:	473 mg/l (as CaCO ₃)
Vanadium:	<0.002 mg/l (Assumption)
Phosphate:	<0.15 mg/l
TOC:	<1 mg/l
Turbidity:	1.07 NTU

Recommendations:

Empty Bed Contact Time:	3.14 Minutes @ 50 gpm
Ft ³ MetSorb Media:	21 ft ³
Tank size:	42" X 72" Vessels
Number of Tanks:	1
Estimated Bed Volumes:	43,500 Bed Volumes
Estimated Gallons Prior to Media Replacement:	6,832,980 gallons

Assumptions / Recommendations:

- Arsenic is present exclusively as arsenic +5.
- No other contaminants present to reduce adsorption capacity.

Estimated performance is based upon customer supplied water analysis. Actual media performance may vary as a result of site specific conditions and the presence of contaminants not represented in the data provided. This is not intended to be a guarantee of PERFORMANCE. Ongoing testing is necessary to identify any change in water supply which might affect the life of the media.